We Claim:

1. A peripheral for connecting to a terminal via a first channel and for wirelessly connecting to at least one partner appliance via a second channel, the peripheral comprising:

a transmission/reception unit and an antenna connected to said transmission/reception unit for wirelessly connecting to the at least one partner appliance via the second channel; and

an interface unit for connecting the first channel and the second channel to the terminal.

2. The peripheral according to claim 1, wherein data is transmitted bidirectionally in the second channel using an ISM band of 2.4 GHz.

3. The peripheral according to claim 1, wherein the second channel is based on a protocol in accordance with standard IEEE 802.11.

4. The peripheral according to claim 1, wherein data are transmitted between the terminal and the peripheral in the first channel and the second channel by multiplexing using a given physical medium.

5. The peripheral according to claim 1, comprising:

a transmission link routing a channel, selected from the group consisting of the first channel and the second channel, between the peripheral and the terminal;

said transmission link being a universal serial bus.

6. The peripheral according to claim 1, in combination with the partner appliance, wherein:

the partner appliance is a terminal that is connected to another peripheral having another transmission/reception unit, an antenna connected to said other transmission/reception unit, and an interface unit.

7. The peripheral according to claim 1, in combination with the terminal, wherein the terminal is a data processing system.

8. The peripheral according to claim 1, wherein said transmission/reception unit, said antenna, and said interface unit form parts of a device selected from the group consisting of a printer, a mouse, a keyboard, a video camera, and a telephone receiver.

9. A telephone receiver for connecting to a data processing system via a first channel and for wirelessly connecting to at least one partner appliance via a second channel, the telephone receiver comprising:

a transmission/reception unit and an antenna connected to said transmission/reception unit for wirelessly connecting to the at least one partner appliance via the second channel;

an interface unit for connecting the first channel and the second channel to the data processing system; and

an energy storage device;

a voice link can be set up to the partner appliance using the first channel and also without using the first channel; and

the voice link can be set up when the data processing system is in a state selected from the group consisting a switched on state and a switched off state.

10. The telephone receiver according to claim 9, comprising components selected from the group consisting of control elements and display elements.